

RPA1006.ST25.txt
SEQUENCE LISTING

<110> Smith, Edward
Elfstrom, Carita
Gelfand, David
Higuchi, Russell
Myers, Thomas
Schoenbrunner, Nancy
Wang, Alice

<120> HIGH TEMPERATURE REVERSE TRANSCRIPTION USING MUTANT DNA POLYMERASES

<130> RPA1006

<150> US 60/198,336
<151> 2000-04-18

<160> 21

<170> PatentIn version 3.0

<210> 1
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<220>
<221> VARIANT
<222> (2)..(2)
<223> X is S or A

<220>
<221> VARIANT
<222> (3)..(3)
<223> X is any amino acid

<220>
<221> VARIANT
<222> (4)..(4)
<223> X is any amino acid

<220>

RPA1006.ST25.txt

<221> VARIANT
<222> (5)..(5)
<223> X is L or I

<220>
<221> VARIANT
<222> (6)..(6)
<223> X is any amino acid

<220>
<221> VARIANT
<222> (7)..(7)
<223> X is any amino acid

<220>
<221> VARIANT
<222> (8)..(8)
<223> X is any amino acid

<220>
<221> VARIANT
<222> (9)..(9)
<223> X is any amino acid

<220>
<221> VARIANT
<222> (10)..(10)
<223> X is any amino acid

<400> 1

Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu
1 5 10

<210> 2
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

RPA1006.ST25.txt

<220>
<221> VARIANT
<222> (3)..(3)
<223> X is Q or G

<220>
<221> VARIANT
<222> (6)..(6)
<223> X is S or A

<400> 2

Leu Ser Xaa Glu Leu Xaa Ile Pro Tyr Glu Glu
1 5 10

<210> 3
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<400> 3

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
5 10

<210> 4
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<220>
<221> VARIANT
<222> (3)..(3)
<223> X is Q or G

<400> 4

Leu Ser Xaa Glu Leu Ser Ile Pro Tyr Glu Glu
1 5 10

RPA1006.ST25.txt

<210> 5
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<220>
<221> VARIANT
<222> (7)..(7)
<223> X is V or I

<400> 5

Leu Ser Val Arg Leu Gly Xaa Pro Val Lys Glu
1 5 10

<210> 6
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<400> 6

Leu Ser Lys Arg Ile Gly Leu Ser Val Ser Glu
5 10

<210> 7
<211> 11
<212> PRT
<213> Artificial

<220>
<223> sequence motif

<220>
<221> VARIANT
<222> (8)..(8)
<223> X is S or T

<400> 7

RPA1006.ST25.txt

Leu Ala Gln Asn Leu Asn Ile Xaa Arg Lys Glu
1 5 10

<210> 8
<211> 11
<212> PRT
<213> *Thermus aquaticus*

<400> 8

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1 5 10

<210> 9
<211> 11
<212> PRT
<213> *Thermus flavus*

<400> 9

Leu Ser Gly Glu Leu Ser Ile Pro Tyr Glu Glu
5 10

<210> 10
<211> 11
<212> PRT
<213> *Thermus thermophilus*

<400> 10

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
5 10

<210> 11
<211> 11
<212> PRT
<213> *Thermus sp. z05*

<400> 11

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1 5 10

<210> 12
<211> 11
<212> PRT
<213> *Thermus sp. sps17*

RPA1006.ST25.txt

<400> 12

Leu Ser Gln Glu Leu Ser Ile Pro Tyr Glu Glu
1 5 10

<210> 13

<211> 11

<212> PRT

<213> *Thermus caldophilus*

<400> 13

Leu Ser Gln Glu Leu Ala Ile Pro Tyr Glu Glu
1 5 10

<210> 14

<211> 11

<212> PRT

<213> *Thermus filiformis*

<400> 14

Leu Ser Gln Glu Leu Ser Ile Pro Tyr Glu Glu
5 10

<210> 15

<211> 11

<212> PRT

<213> *Thermotoga maritima*

<400> 15

Leu Ser Val Arg Leu Gly Val Pro Val Lys Glu
1 5 10

<210> 16

<211> 11

<212> PRT

<213> *Thermotoga neapolitana*

<400> 16

Leu Ser Val Arg Leu Gly Ile Pro Val Lys Glu
1 5 10

<210> 17

<211> 11

RPA1006.ST25.txt

<212> PRT
<213> Thermosiphon africanus

<400> 17

Leu Ser Lys Arg Ile Gly Leu Ser Val Ser Glu
1 5 10

<210> 18
<211> 11
<212> PRT
<213> Bacillus caldotenax

<400> 18

Leu Ala Gln Asn Leu Asn Ile Ser Arg Lys Glu
1 5 10

<210> 19
<211> 11
<212> PRT
<213> Bacillus stearothermophilus

<400> 19

Leu Ala Gln Asn Leu Asn Ile Thr Arg Lys Glu
1 5 10

<210> 20
<211> 20
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 20
cgagatccct ccaaaatcaa

20

<210> 21
<211> 23
<212> DNA
<213> Artificial

<220>
<223> primer

RPA1006.ST25.txt

<400> 21

catgagtcct tccacgatac caa

23